

WHAT IS CLAIMED IS

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1. A noise countermeasure determination method comprising the step of:

- (a) obtaining an analyzing circuit judgement result by judging acceptability of the analyzing circuit based on a comparison of features of the analyzing circuit and transmission circuit topologies, and outputting an improvement proposal for making the analyzing circuit closer to one of basic types of the transmission circuit topologies depending on the analyzing circuit judgement result.

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2. The noise countermeasure determination method as claimed in claim 1, further comprising the steps of:

- (b) calculating transmission characteristic values of the analyzing circuit based on calculation formulas depending on the judgement result of said step (a) and the transmission circuit topologies;
- (c) obtaining a characteristic value judgement result by judging acceptability of the transmission characteristic values, based on judging values;
- (d) analyzing an error cause by referring to an error cause file which indicates the error causes depending on error items, using the characteristic value judgement result; and
- (e) selecting and outputting an improvement proposal by referring to an improvement proposal file which indicates improvement proposals depending on the error causes, using the error cause analyzed

by said step (d).

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3. The noise countermeasure determination method as claimed in claim 2, further comprising the steps of:

- (f) analyzing a transmission waveform of the  
10 analyzing circuit using a waveform analyzing tool;
- (g) obtaining a waveform judgement result by  
judging acceptability of the transmission waveform,  
based on the judging values;
- (h) analyzing the error cause by referring to  
15 the error cause file, using the waveform judgement  
result; and
- (i) selecting and outputting an improvement  
proposal by referring to an improvement proposal  
file which indicates improvement proposals depending  
20 on the error causes, using the error cause analyzed  
by said step (h).

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4. The error countermeasure determination method as claimed in claim 1, further comprising the steps of:

- (b) analyzing a transmission waveform of the  
30 analyzing circuit using a waveform analyzing tool;
- (c) obtaining a waveform judgement result by  
judging acceptability of the transmission waveform,  
based on judging values;
- (d) analyzing an error cause by referring to  
35 an error cause file which indicates the error causes  
depending on error items, using the waveform  
judgement result; and

(e) selecting and outputting an improvement proposal by referring to the improvement proposal file, using the error cause analyzed by said step (d).

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10 5. The noise countermeasure determination method as claimed in claim 1, further comprising the step of:

(b) judging the transmission circuit topology of the analyzing circuit, by referring to a circuit feature file which stores feature information used  
15 for judging the transmission circuit topology.

20 6. A noise countermeasure determination apparatus comprising:  
circuit acceptability judging and output means for obtaining an analyzing circuit judgement result by judging acceptability of the analyzing circuit  
25 based on a comparison of features of the analyzing circuit and transmission circuit topologies, and outputting an improvement proposal for making the analyzing circuit closer to one of basic types of the transmission circuit topologies depending on the  
30 analyzing circuit judgement result.

35 7. The noise countermeasure determination apparatus as claimed in claim 6, further comprising:  
calculating means for calculating transmission

characteristic values of the analyzing circuit based on calculation formulas depending on the judgement result of said circuit acceptability judging and output means and the transmission circuit

5 topologies;

characteristic value judging means for obtaining a characteristic value judgement result by judging acceptability of the transmission characteristic values, based on judging values;

10 first error cause analyzing means for analyzing an error cause by referring to an error cause file which indicates the error causes depending on error items, using the characteristic value judgement result; and

15 first improvement proposal selecting and outputting means for selecting and outputting an improvement proposal by referring to an improvement proposal file which indicates improvement proposals depending on the error causes, using the error cause  
20 analyzed by said first error cause analyzing means.

25 8. The noise countermeasure determination apparatus as claimed in claim 7, further comprising:  
waveform analyzing means for analyzing a transmission waveform of the analyzing circuit using a waveform analyzing tool;

30 waveform judging means for obtaining a waveform judgement result by judging acceptability of the transmission waveform, based on the judging values;

second error cause analyzing means for analyzing the error cause by referring to the error  
35 cause file, using the waveform judgement result; and  
second improvement proposal selecting and outputting means for selecting and outputting an

improvement proposal by referring to an improvement proposal file which indicates improvement proposals depending on the error causes, using the error cause analyzed by said second error cause analyzing means.

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9. The error countermeasure determination  
10 apparatus as claimed in claim 6, further comprising:  
    waveform analyzing means for analyzing a  
    transmission waveform of the analyzing circuit using  
    a waveform analyzing tool;  
    waveform judging means for obtaining a waveform  
15 judgement result by judging acceptability of the  
    transmission waveform, based on judging values;  
    error cause analyzing means for analyzing an  
    error cause by referring to an error cause file  
    which indicates the error causes depending on error  
20 items, using the waveform judgement result; and  
    improvement proposal selecting and outputting  
    means for selecting and outputting an improvement  
    proposal by referring to the improvement proposal  
    file, using the error cause analyzed by said error  
25 cause analyzing means.

30 10. The noise countermeasure  
determination apparatus as claimed in claim 6,  
further comprising:  
    topology judging means for judging the  
transmission circuit topology of the analyzing  
35 circuit, by referring to a circuit feature file  
which stores feature information used for judging  
the transmission circuit topology.

11. A computer-readable storage medium which stores a program for causing a computer to determine a noise countermeasure with respect to an analyzing circuit which is to be analyzed, said  
5 program comprising:

a circuit acceptability judging and output procedure which causes the computer to obtain an analyzing circuit judgement result by judging acceptability of the analyzing circuit based on a  
10 comparison of features of the analyzing circuit and transmission circuit topologies, and to output an improvement proposal for making the analyzing circuit closer to one of basic types of the transmission circuit topologies depending on the  
15 analyzing circuit judgement result.

12. The computer-readable storage medium as claimed in claim 11, wherein said program further comprises:

a calculating procedure which causes the computer to calculate transmission characteristic values of the analyzing circuit based on calculation formulas depending on the judgement result of said circuit acceptability judging and output means and the transmission circuit topologies;

a characteristic value judging procedure which  
30 causes the computer to obtain a characteristic value judgement result by judging acceptability of the transmission characteristic values, based on judging values;

a first error cause analyzing procedure which  
35 causes the computer to analyze an error cause by referring to an error cause file which indicates the error causes depending on error items, using the

characteristic value judgement result; and

a first improvement proposal selecting and outputting procedure which causes the computer to select and output an improvement proposal by referring to an improvement proposal file which indicates improvement proposals depending on the error causes, using the error cause analyzed by said first error cause analyzing means.

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13. The computer-readable storage medium as claimed in claim 12, wherein said program further comprises:

a waveform analyzing procedure which causes the computer to analyze a transmission waveform of the analyzing circuit using a waveform analyzing tool;

a waveform judging procedure which causes the computer to obtain a waveform judgement result by judging acceptability of the transmission waveform, based on the judging values;

a second error cause analyzing procedure which causes the computer to analyze the error cause by referring to the error cause file, using the waveform judgement result; and

a second improvement proposal selecting and outputting procedure which causes the computer to select and output an improvement proposal by referring to an improvement proposal file which indicates improvement proposals depending on the error causes, using the error cause analyzed by said second error cause analyzing means.

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14. The computer-readable storage medium as claimed in claim 11, wherein said program further comprises:

5 a waveform analyzing procedure which causes the computer to analyze a transmission waveform of the analyzing circuit using a waveform analyzing tool;

a waveform judging procedure which causes the computer to obtaining a waveform judgement result by judging acceptability of the transmission waveform,  
10 based on judging values;

an error cause analyzing procedure which causes the computer to analyze an error cause by referring to an error cause file which indicates the error causes depending on error items, using the waveform  
15 judgement result; and

an improvement proposal selecting and outputting procedure which causes the computer to select and output an improvement proposal by referring to the improvement proposal file, using  
20 the error cause analyzed by said error cause analyzing means.

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15. The computer-readable storage medium as claimed in claim 11, wherein said program further comprises:

30 a topology judging procedure which causes the computer to judge the transmission circuit topology of the analyzing circuit, by referring to a circuit feature file which stores feature information used for judging the transmission circuit topology.

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